19971012.qrp v00_n876.qrs.971012

Date: Sun, 12 Oct 1997 19:03:18 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 876

QRP-L Digest 876

Topics covered in this issue include:

  1) [28594] O'scope bandwidth question.
     by Gary M - W2UX <MAIL4GARY@worldnet.att.net>
  2) [28595] Re: O'scope bandwidth question.
     by Ed Tanton <n4xy@bellsouth.net>
  3) [28596] QRP Flahlights
     by "James R. Duffey" <jamesd1@flash.net>
  4) [28597] Re: CW/SSB ratio=18dB. How?....
     by "Marshall Emm" <mgemm@mtechnologies.com>
  5) [28598] New Pixie - 49er contest / Kightlites
     by Jim <kj5tf@mctc.com>
  6) [28599] QRP Flashlights
     by Norm Melick <henmel@worldnet.att.net>
  7) [28600] Re: CW/SSB ratio=18dB. How?....
     by "John A. Evans - N0HJ" <jaevans@codenet.net>
  8) [28601] Quoting other's postings
     by gsurrency@juno.com (Gary L L Surrency)
  9) [28602] Re: CW/SSB ratio=18dB. How?....
     by "Marshall Emm" <mgemm@mtechnologies.com>
 10) [28603] Re: Joy Oh Joy of QRP
     by Joseph Everhart <n2cx@voicenet.com>
 11) [28604]
     by kc5aik@juno.com (Larry H Sykes)
 12) [28605] FOX:Wed Rpt Missed?
     by "Wilford D. Lindsey" <70511.3041@compuserve.com>
 13) [28606] FOX: Monday, Oct 13
     by dhlauten@juno.com (David H. Lauten)
 14) [28607] FISTS Sprint
     by "Marshall Emm" <mgemm@mtechnologies.com>
 15) [28608] Fox log (NR3Z)
     by Wayne Alexander <walexander@wwn.net>
 16) [28609] Re: New Pixie - 49er contest / Kightlites
     by Randy Hargenrader <randyh@harksystems.com>
 17) [28610] Re: Joy Oh Joy of QRP
     by "Basil (Darin) Arrick" <basila@OnRamp.NET>
 18) [28611] Circuit for keying a transciever with a palmtop?
     by "James M. Wiedle" <jamesw@ptialaska.net>
 19) [28612] Update on ----[FOR SALE]----

by SNickrand@aol.com
20) [28613] Re: O'scope bandwidth question.
by AE0Q V31RY <v31ry@ix.netcom.com>
21) [28614] Re: Circuit for keying a transciever with a palmtop?
by AE0Q V31RY <v31ry@ix.netcom.com>
22) [28615] "Joy of QRP" at PacifiCon
by Paul Harden <pharden@aoc.nrao.edu>
23) [28616] NOT QRP, but fun anyway
by Roger Hightower <n7kt@dancris.com>
24) [28617] Re: O'scope bandwidth question.
by Paul Harden <pharden@aoc.nrao.edu>
25) [28618] Re: SST 20 VXO range
by Frank G3YCC <g3ycc@gqrpclub.demon.co.uk>
26) [28619] Re: Circuit for keying a transciever with a palmtop?
by Leon Heller <leon@lfheller.demon.co.uk>
27) [28620] Re: QRP Flahlights
by Henry Freedenberg <henryf@quartz.gly.fsu.edu>
28) [28621] Component Data
by n4so@juno.com (charles k brown)
29) [28622] dx
by Bill Boose <wboose@postoffice.ptd.net>
30) [28623] sst 40M audio problems-howl
by PULLJIM@aol.com
31) [28624] Weak signal enhancement info
by "Larry Cruise" <Larry.Cruise@MCI.Com>
32) [28625] Re: QRP Flashlights
by Steve Miller <kg7pv@teleport.com>
33) [28626] "Joy of QRP"
by "Steve Hurst" <shurst@magiclink.com>
34) [28627] "The Joy of QRP"
by Jerry Parker <jparker@fix.net>
35) [28628] Re: Fox log (NR3Z)
by Wayne Alexander <walexander@wwn.net>
36) [28629] CQC Swaplist Update
by "Marshall Emm" <mgemm@mtechnologies.com>
37) [28630] Operating Question (directed CQ's)
by "Adam B. Kanis" <adam-kanis@uiowa.edu>
38) [28631]
by kc5aik@juno.com (Larry H Sykes)
39) [28632] Address to order "Joy of QRP"
by ki6ds@dpol.k12.ca.us (Hendricks, Doug)
40) [28633] Multicolored QRP flashlight??
by Jim W7LS <w7ls@brigadoon.com>
41) [28634] Re: sw listening
by NilsBull@aol.com
42) [28635] Who is coming to Pacificon?
by ki6ds@dpol.k12.ca.us (Hendricks, Doug)
43) [28636] RE: QRP Flashlights, more info

    by Steve Miller <kg7pv@teleport.com>
 44) [28637] FOX - report
    by kb0rol@juno.com
 45) [28638] Re: sw listening
    by w4bws@juno.com (Donald E Sanders)
 46) [28639] Re:
    by w4bws@juno.com (Donald E Sanders)
 47) [28640] Re: Beverage Antenna
    by David Bixler <qrp@netins.net>
 48) [28641] FS: HM-9A & HFT-9-B
    by K3TE <QRP@earthlink.net>
 49) [28642] Re: dx
    by Werner Jochem <Werner.Jochem@hoexter.netsurf.de>
 50) [28643] dx
    by Bill Boose <wboose@postoffice.ptd.net>
 51) [28644] FREQUENCY FOR 10 METER QRP AM
    by Mike Duke <K5xu@cris.com>
 52) [28645] Nice DX and hamfest, too
    by "Kevin F. Glynn" <kfglynn@prodigy.net>

Date: Sat, 11 Oct 1997 19:04:31
From: Gary M - W2UX <MAIL4GARY@worldnet.att.net>
To: qrp-l@Lehigh.EDU
Subject: [28594] O'scope bandwidth question.
Message-ID: <3.0.1.16.19971011190431.371f34c6@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Is there a way to tell the bandwidth of a scope if you don't know with out
fancy equipment.

Can you tell from the controls on the scope?   Is there some sort of formula?

Thanks

==
73 / 72   QRP ARCI # 8911
Gary - W2UX   QRP-L # 593
Lexington, SC   CQC #413
(EX: WA2UAX)
CW is the REAL THING!   Use it or lose it.
==

Date: Sat, 11 Oct 1997 19:46:03 -0400
From: Ed Tanton <n4xy@bellsouth.net>
To: MAIL4GARY@worldnet.att.net
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [28595] Re: O'scope bandwidth question.
Message-ID: <3.0.1.32.19971011194603.00c62890@mail.atl.bellsouth.net>
Mime-Version: 1.0
Content-Type: text/enriched; charset="us-ascii"

I don't think there's really a formula... but you can see what signal frequency it will stably trigger on. Easiest thing is to simply look it up, one way or another. In Nuts & Volts there are many listings by sellers, that often list the BW. Basically, the higher in frequency the signal goes past the rated BW of the 'scope, the more rounded the signal on screen becomes, and the less representative it is of the actual signal... plus the harder it is to get a stable, triggered waveform.

That is one of the problems in trying to find max BW using a sine wave (e.g. RF from a rig/whatever.) It may not tell you much that way.

If you have even a simple square wave generator, check it with that. If you can take an assortment of the very common 4 pin oscillators, you can use them as a sort of reference. I say 'sort-of' because sometimes you have to take their output with a grain of salt. Before I would trust one to have a pretty good square wave, I would want to have seen it somewhere on a scope that would cover that freq. These oscillators go as high as you could ask-more or less-for scope BW. I expect their output would <bold><italic>usually</italic></bold> be a decent squarewave, although it can certainly vary from mfgr to mfgr, and even osc to osc.

Three or four of these, and 5V and you'd be able to test at say ~4MHz, ~10MHz and ~50MHz. They're available anywhere as practically scrap, and once you determine their output waveform could be "trusted", you could even pop a regulator in a little minibox, use a 9V battery reg'd to +5VDC, switch the reg. +5 VDC between each one, use 3 RCA jacks or just a single paired output set of test leads, and carry the thing around with you "shopping" at hamfests and the like.

Sure would 'separate the men form the boys' 'scope-wise!

72/73 ZUT!!!

Ed Tanton N4XY EMAIL: n4xy@bellsouth.net

189 Pioneer Trail

Marietta, GA 30068-3466 TEL: (770)579-3933 V/MBX/FAX

QRP-ARCI #7663 G-QRP #6779 OK-QRP #172 QRP-L #758

AdvRC #140 NORCAL #1779 NCDXF SEDXC

Life Member: ARRL AMSAT INDEXA QCWA

INTERESTS: DX QRP BoatAnchors Test Equipment Photography

CW: 99.9% QRP: 95-100% (Mood swings!) Mercury Paddle #0214

~~~~~~

"Think you can, think you can't: either way you're right!" Henry Ford

~~~~~~

Date: Sat, 11 Oct 97 18:03:52 -0700
From: "James R. Duffey" <jamesd1@flash.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [28596] QRP Flahlights
Message-ID: <199710120005.TAA18886@endeavor.flash.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

I didn't realize that there was so much interest in low power flashlights. For those who want more information, there was extensive discussion of using LEDs to make flashlights over on the Amateur Telescope Making (ATM) list a few months ago. They, of course, are interested in the red light to keep their eyes dark adapted. The ATM list archives are very easy to search for topics. I don't have the address here, but if any one wants it I can look it up and send it. - Duffey

James R. Duffey KK6MC/5 DM65
30 Casa Loma Road
Cedar Crest NM 87008

Date: Sat, 11 Oct 1997 18:05:22 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: Vic Rosenthal <rakefet@rakefet.com>
Cc: qrp-l@Lehigh.EDU
Subject: [28597] Re: CW/SSB ratio=18dB. How?....
Message-ID: <199710120005.SAA06187@bobcat.sni.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

>>The trade off, of course, is that the rate of information transferred by CW is lower, but we knew that already.
<<

Maybe, maybe not. Ask a guy named Marshall which transfer rate is faster-- My name is Marshall, I spell Mike Alpha Romeo Sierra Hotel Alpha Lima Lima. Marshall-- or OP MARSHALL in Morse.

Common plain language speech is around 120wpm, and Morse copy at 50-60wpm is achievable, so there is some sort of standard myth that the best CW can do is half the information transfer rate. BUT the use of codes and abbreviations can more than double the transfer rate in Morse.

And of course that is without any consideration of the nature and value of the information being transferred [g]

73
Marshall Emm
N1FN/VK5FN
n1fn@mtechnologies.com
http://www.mtechnologies.com/mthome
(303)752-3382
--

Date: Sat, 11 Oct 1997 19:21:21 -0500
From: Jim <kj5tf@mctc.com>
To: qrp-l@Lehigh.EDU
Subject: [28598] New Pixie - 49er contest / Kightlites
Message-ID: <34401801.F9D@mctc.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Randy WJ4P posted this yesterday but I'm reprinting it here so more can see it. Great idea you'all, I'll tuneup my 49er Randy and beat you again this year! I'm going with a better antenna this time so you better watch out. :)
But knowing how close you were to beating me last year, I'm sure you have a plan too.
de Jim KJ5TF/QRP AR QRP
#2
******* 49er contest 1st place 1996 *******

Date: Sat, 11 Oct 1997 16:57:43 -0400
From: Randy Hargenrader <randyh@harksystems.com>
To: qrp-l@Lehigh.EDU
Cc: klqrp@acpub.duke.edu, ae4ic@nr.infi.net
Subject: [28588] Pixie Contest Announcement

QRP-Ler's and Friends...

* A PRELIMINARY ANNOUNCEMENT *

Announcing the Pixie/40-9er Contest sponsored by the KnightLites! Start building those Pixies and tune up those 40-9ers! The week long format will be held the week between Christmas and New Years. Points will be weighted in favor of the Pixies and 40-9ers but there will be winners in other categories too! Last years' contest using 40-9ers was a hoot! This one should be just as much fun!

First Prize in the Pixie category will be a Radio Adventures Corp. Digital Dial! For the ops of "other" radios we will have Tick Keyers to reward you for making the effort to work the host of Novelty Radios that will be on the air!

Rules will be similar to last years' 40-9er contest. Basically, the contest runs for a couple hours each evening. You will turn in your

best few nights of operating. Should be fun!

Stay tuned for further developments!
--
73, Randy WJ4P
Knightlites QRP-L #296

Date: Sat, 11 Oct 1997 18:11:48 -0700
From: Norm Melick <henmel@worldnet.att.net>
To: qrp-l@Lehigh.EDU
Subject: [28599] QRP Flashlights
Message-ID: <344023D4.1FD9@worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I just found this regarding the building the LED flashlights.

http://users.southeast.net/~rcurry/ericsled.html

Hope this helps. Somewhere I ran arcoss a mod to change the bulb of a
mag lite to a LED. I'll try to find it.

Norm/KQ6SD

Date: Sat, 11 Oct 1997 19:32:56 -0600
From: "John A. Evans - N0HJ" <jaevans@codenet.net>
To: qrp-l@Lehigh.EDU
Subject: [28600] Re: CW/SSB ratio=18dB. How?....
Message-ID: <3.0.1.32.19971011193256.006e4a44@codenet.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 06:05 PM 10/11/97 -0600, you wrote:
>BUT the
>use of codes and abbreviations can more than double the transfer rate
>in Morse.

And don't forget the uhhhhhhhhhhhhh's !!!!

john - n0hj

John A. Evans   Chief Systems Administrator
Office: (719) 528-1800 x164   Titan Software Systems
Fax: (719) 528-1888   1115 Elkton Drive, Suite 200
email: jaevans@cos.cst.titan.com Colorado Springs, CO 80907-3535

Norcal #262 QRP-L #219 QRP-ARCI #8303 NE-QRP #213 CQC #045
CQrp   #15   NJ-QRP #50   AK-QRP   #52   NW-QRP #454 FISTS #3184
Personal Web Page: http://www.geocities.com/capecanaveral/9773/

Date: Sat, 11 Oct 1997 18:22:34 -0700
From: gsurrency@juno.com (Gary L L Surrency)
To: qrp-l@Lehigh.EDU
Subject: [28601] Quoting other's postings
Message-ID: <19971011.183754.11982.1.gsurrency@juno.com>

Gang, would all of you please cooperate and not include the entire posting when you reply to someone else's comments? At least include only the minimum pertinent portion(s) if you feel you must.

As Jess mentioned in his posting, a lot of space is used needlessly if you quote everything in your replies. A computer is like a trash can: if all you ever do is fill it up, sometime it *will* need to be emptied.

Thanks for your consideration.

72,

AB7MY
Gary Surrency
Chandler, AZ (Near Phoenix), QRP-L #571, AZ ScQRPions, ARRL VE

Date: Sat, 11 Oct 1997 19:45:05 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: "John A. Evans - N0HJ" <jaevans@codenet.net>
Cc: qrp-l@Lehigh.EDU
Subject: [28602] Re: CW/SSB ratio=18dB. How?....

Message-ID: <199710120144.TAA17005@bobcat.sni.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

>>And don't forget the uhhhhhhhhhhhhh's !!!!
<<

I was gonna say that, when I suddenly remembered dah-di-di-di-dahs!
[g]
73
Marshall Emm
N1FN/VK5FN
n1fn@mtechnologies.com
http://www.mtechnologies.com/mthome
(303)752-3382
--

Date: Sat, 11 Oct 1997 21:48:15 -0400
From: Joseph Everhart <n2cx@voicenet.com>
To: qrp-l@Lehigh.EDU
Cc: njqrp@njqrp.org
Subject: [28603] Re: Joy Oh Joy of QRP
Message-ID: <199710120148.VAA97749@nss2.CC.Lehigh.EDU>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Gang,

Gotta agree 1000% with Doug about "Joy". It reallby *is* the best QRP book written.
Ade deserves a huge thank you for publishing it again.

I, too, went on a mission to get a copy. A number of years back I sent a check in
to CQ magazine in response to their ad for the book. They returned my check with a
note sayiing that they had sold out. Following their advice, I then worte directly
to Ade to see if he had any left. To my great chagrin, they were all gone.

I mentioned my quest to Mike, WA8MCQ who told me that RSGB had some for sale. I
quiclly dipatched a letter to them asking if any were in stock and what their price was.

After several weeks I received the reply that they had *one* last copy in stock and
that I could senda check for their quoted price in pounds converted to $$ according
to the exchange rate the day that I sent in the order. A call to a local bank gave
me the exchange rate.

After another month or so, it arrived! My joy of QRP was very high that day!
Then in the next QRP Quarterly, Mike mentioned that RSGB had some. I just kept my
mouth shut knowing that I had *the last one* It is iondeed a prized posession.

Oh yes, I do have the History of QRP, too...

72/73,

Joe E., N2CX

>From South Jersey, y'all!

home: n2cx@voicenet.com
work: jeverhar@camden.lmco.com

Date: Sat, 11 Oct 1997 21:51:50 EDT
From: kc5aik@juno.com (Larry H Sykes)
To: qrp-l@Lehigh.EDU
Message-ID: <19971011.040858.2127.3.kc5aik@juno.com>

    Help, Can't find the formula for loop ant, 80 Meters.

            Tnx
            Larry H. Sykes

Date: Sat, 11 Oct 1997 22:08:46 -0400
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: QRP-L Discussion Group <QRP-L@Lehigh.EDU>, "W.D. (Doc) Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [28605] FOX:Wed Rpt Missed?
Message-ID: <199710112212_MC2-2396-8EE2@compuserve.com>
MIME-Version: 1.0

Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Gang:

Have been traveling PLUS have been experiencing some difficulty with e-mail. So I have not received the FOOXlog from last Wednesday. Could someone please forward a copy? Many thanks in advance for your help

Good luck es 72/73,
--Doc/K0EVZ qrp-l 861 norcal 2050 cqc 414 ARS 311 FISTS 3868 mn-qrp 19
nj-qrp 69 ak/qrp 139 AR QRP 73 ARCI 9398 ARRL WAS 48/40
DXCC 53/42 <><

OMNI V Sierra Argo 515 Norcal 40a SW-40 49er 38S Mercury Paddles
Emtech ZM-1 MFJ 259 MFJ 941D GAP TNT/2 Windom SLV/W6MMA G5RV
Autek QF-1 RS DSP-40

"Things should be as simple as possible, but no simpler"--A. Einstein

---

Date: Sat, 11 Oct 1997 22:30:23 EDT
From: dhlauten@juno.com (David H. Lauten)
To: QRP-L@Lehigh.EDU
Subject: [28606] FOX: Monday, Oct 13
Message-ID: <19971011.191024.6487.2.DHLAUTEN@juno.com>

Fox Hounds,

On Monday, October 13, 9:00 - 11:00 PM EST (Tuesday, Oct 14, 0100--300 UTC) I will be the FOX to work.

I will call the hunt on 7122 and work down to 7112 as needed. The basic exchange info for the Novice/Tech Plus Hunts is RST, NAME, STATE. But, I hope to make it a bit more interesting.

Since I am new on the air, I probably am not in your log. What fun we will have!

72 de David Lauten, KF4HAW
A tender fox awaiting the hunt.

Date: Sat, 11 Oct 1997 20:55:41 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: qrp-l@Lehigh.EDU
Cc: cqclist@lists.csn.net
Subject: [28607] FISTS Sprint
Message-ID: <199710120255.UAA25159@bobcat.sni.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

That was fun, maybe I'll try the PA thing tomorrow. Operated with
4.75W to a GAP Titan, had 31 QSO's with 18 SPCs.

Anybody know if logs can be submitted by E-mail??

73
Marshall Emm
N1FN/VK5FN
n1fn@mtechnologies.com
http://www.mtechnologies.com/mthome
(303)752-3382
--

Date: Sat, 11 Oct 1997 22:00:49 -0500
From: Wayne Alexander <walexander@wwn.net>
To: qrp-l@Lehigh.EDU
Subject: [28608] Fox log (NR3Z)
Message-ID: <3.0.3.32.19971011220049.0069f650@pop.wwn.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I never did get a log of NR3Z. Did He ever post one? If so someone please
forward me a copy. Thanks

KB0PTE
Wayne

Date: Sat, 11 Oct 1997 23:31:10 -0400
From: Randy Hargenrader <randyh@harksystems.com>
To: kj5tf@mctc.com
Cc: qrp-l@Lehigh.EDU
Subject: [28609] Re: New Pixie - 49er contest / Kightlites
Message-ID: <3440447E.155B@harksystems.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

>Jim wrote:
> Great idea you'all, I'll tuneup my 49er Randy and beat you again
> this year! I'm going with a better antenna this time so you better watch
out. :)
> But knowing how close you were to beating me last year, I'm sure you
> have a plan too.
>   de Jim KJ5TF/QRP AR QRP
OK, Jim!
I'm not eligable for prizes but I can still operate!
Your on!! May the best Pixie or 49er win!
Oh,BTW, I hope your station is "Tempest Compliant"! A nuclear
strike isn't out of the question!!
--
73, Randy WJ4P
Knightlites QRP-L #296

Date: Sun, 12 Oct 1997 00:07:10 -0600
From: "Basil (Darin) Arrick" <basila@OnRamp.NET>
To: qrp-l@Lehigh.EDU
Subject: [28610] Re: Joy Oh Joy of QRP
Message-ID: <199710120458.XAA14587@mailhost.onramp.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

> Guys, only 1000 copies of the second edition of "Joy of QRP" have been
> printed. There are 2500 members of this list.   They all know about it.
> Let me let you in on another secret. There are 2500 members of NorCal.
> Jim and I are including a flyer that has ordering information for "Joy of
> QRP" in every issue that will mail in the next two weeks. We are doing
> this out of respect for Ade Weiss, and to encourage him in his endeavor.
> It is our way of saying thank you to one of the pioneers of QRP. QRPp does
> not accept advertising, but we felt that this was such a monumental event

> in QRP that we had to do something to let our subscribers know about it.
> Jerry Parker is also putting the information on the NorCal Web page.
>
> What does this mean. He who hesitates is lost. If you don't act now, you
> will learn the meaning of finite supply. Nothing lasts forever. If you
> want it, act now. I hearby give my highest recommendation to anyone
> considering buying "Joy of QRP".

Is there some reason that only 1000 copies were printed? Once these sell out, if the price is set with a reasonable profit margin, there should be more than enough money to print another 1000 or 2000. Then, that should generate more money to print more. So, once these 1000 sell out, there will be more, correct? There are those of us who can't afford it right now, but would like to get it later; it almost sounds like I won't have a chance.

Basil, KB5KHR

Basil (Darin) Arrick	P.O. Box 820054, North Richland Hills, TX, 76182
basil@orthodox.net	Orthodox Christian	http://www.orthodox.net
basil@homestead.org	Homesteader/Farmer	http://www.homestead.org
ICQ # 3352463	ICQ User	http://www.mirabilis.com
	Microsoft NetMeeting	ils.family.four11.com
KB5KHR	Amateur (Ham) Radio	EM13ja

Date: Sat, 11 Oct 1997 21:22:08 -0700
From: "James M. Wiedle" <jamesw@ptialaska.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [28611] Circuit for keying a transciever with a palmtop?
Message-ID: <34405070.99A0C45C@ptialaska.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi there everyone;

I've been attacked by the palmtop hysteria and went out and purchased a palmtop. Does anyone know of a keying circuit that one can use to drive a transciever using the terminal program in Windows CE?

I suppose one could write a program in basic or c++ that could key a circuit out of the rs232c but I was hoping that I wouldn't have to be

the one!

Cheers and 73's

--. --- -..- -..- ..-..

James Wiedle
WL7NO

Date: Sun, 12 Oct 1997 01:51:55 -0400 (EDT)
From: SNickrand@aol.com
To: qrp-l@Lehigh.EDU
Subject: [28612] Update on ----[FOR SALE]----
Message-ID: <971012015153_-1026501175@emout17.mail.aol.com>

Argosy 525 SOLD
WM20 $160
WILDERNESS NC40A $105
AA 20 METER XCVR $ 50
38SPEC.W/ENCLOSURE $ 50 With Tick keyer, 5 watt mod
HW7 $ 50
49ER SOLD
38 BOARD SOLD
HALLICRAFTER SX117 / HT44 / PS-SPKR MAKE OFFER
DRAKE T4X / PS /SPKR SOLD

Date: Sat, 11 Oct 1997 23:55:18 -0600
From: AE0Q V31RY <v31ry@ix.netcom.com>
To: MAIL4GARY@worldnet.att.net, qrp-l@Lehigh.EDU
Subject: [28613] Re: O'scope bandwidth question.
Message-ID: <2.2.16.19971012055518.2fb70646@popd.ix.netcom.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 19:04 11-10-97, W2UX wrote:
>Is there a way to tell the bandwidth of a scope if you don't know with out
>fancy equipment.
>
>Can you tell from the controls on the scope? Is there some sort of >formula?
>

Generally, the faster the timebase goes, the greater the bandwidth of the scope will be.

My 100 MHz Tektronix 465 has timebase divisions down to .05 microseconds (per horizontal division). Using the F=1/T formula, that gives a number of 20 MHz, which is 1/5th of the scope's rated "bandwidth".. So you could probably figure a scope's bandwidth is a few times faster than the fastest sweep frequency. There would be no point in making a scope that could sweep faster than the response of the vertical input amplifiers..

There is an 'official' way to measure the bandwidth of a scope. Assuming your pulse generator is a lot faster than you expect the scope to be, you go up in freq (increase the scope's timebase speed) until the edges of the pulses round off to the 10% and 90% points of the waveform . Most scopes have dashed lines across the screen to indicate 0, 10, 90 and 100 percent. Center the squarewave pulses horizontally between the 0 and 100% lines first.. The frequency where the pulse edges round off and hit the 10/90 points is the 'bandwidth' of the scope..

Unfortunately, super-fast pulse generators for calibrating oscilloscopes probably cost more than most used scopes!

73 -- Glenn

"Remember, any tool can be the right tool!" Red Green

AE0Q / V31RY ex: GM5BKC, ZB2WZ, SV0WY, WA0VPK
v31ry@ix.netcom.com --SOWP 5558-M, ARRL LM, QCWA LM, NCVA--
http://www.qsl.net/ae0q

Date: Sun, 12 Oct 1997 00:11:02 -0600
From: AE0Q V31RY <v31ry@ix.netcom.com>
To: jamesw@ptialaska.net, qrp-l@Lehigh.EDU
Subject: [28614] Re: Circuit for keying a transciever with a palmtop?
Message-ID: <2.2.16.19971012061102.0ec7e60e@popd.ix.netcom.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 21:22 11-10-97 -0700, WL7NO wrote:
>
>I've been attacked by the palmtop hysteria and went out and purchased a
>palmtop. Does anyone know of a keying circuit that one can use to drive

>a transciever using the terminal program in Windows CE?
>

  I can't help with the software to do it, but I would HIGHLY recommend that you use an optocoupler for the radio CW keying. A simple circuit with 4 parts can protect your palmtop from RFI or feedback of any kind blowing the output drivers.

  There is a schematic for that on my web site, on the Contest page (about half way down). The optocouplers are 6-pin DIPs and available from Tech America and DigiKey ($0.05 each).. The web site address is:

http://www.qsl.net/ae0q

  The circuit works with a number of programs that key CW from the COM or LPT ports, and would be easy to adapt to other software once you've determined the line to key..

73 -- Glenn

"Remember, any tool can be the right tool!"   Red Green

     AE0Q / V31RY   ex: GM5BKC, ZB2WZ, SV0WY, WA0VPK
  v31ry@ix.netcom.com   --SOWP 5558-M, ARRL LM, QCWA LM, NCVA--
http://www.qsl.net/ae0q

Date: Sun, 12 Oct 1997 00:40:56 -0600 (MDT)
From: Paul Harden <pharden@aoc.nrao.edu>
To: qrp-l@Lehigh.EDU
Subject: [28615] "Joy of QRP" at PacifiCon
Message-ID: <Pine.SOL.3.91.971012002931.2558B-100000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

As mentioned by others, Adrian Weiss has just reprinted his famous "Joy of QRP" book, with only 1000 printed. He is sending me some of the books, which I offered to take to PacifiCon with me to make available to those wishing to purchase one there. I will also be bringing along some of the "Data Book for Homebrewers and QRPers" for those looking for a copy. So both books will be available at PacifiCon at discounted pricing, and of course no shipping charges.

Other vendors will be there also, usually offering various QRP kits, gadgets and snake oil at special prices. How about those of you who

ARE going to be selling something, letting us know (so we can know
how much to beg for and put in our pockets, or just plan ahead).

CU there,
Paul NA5N

Date: Sat, 11 Oct 1997 23:50:03 +0000
From: Roger Hightower <n7kt@dancris.com>
To: qrp-l@Lehigh.EDU
Subject: [28616] NOT QRP, but fun anyway
Message-ID: <344010AB.456C@dancris.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Since there hasn't been a Fox or a QRP contest for a few days, and
having nothing else to do on a Saturday evening, I wandered through the
Web checking out stuff on Quantum Physics....interesting stuff, but one
of the best and funniest is contained here:

http://www.libtech.com/humor/index.html

If quantum physics doesn't do it for you, there's other hilarious stuff,
too.

Wonder if Nils knows this person?
--
72/73, de Roger, N7KT
AK-QRP 167, ARCI 8946, CQC 176, GQRP 9081, NE-QRP 383, NORCAL 1099,
QRP-L 62

Date: Sun, 12 Oct 1997 00:51:06 -0600 (MDT)
From: Paul Harden <pharden@aoc.nrao.edu>
To: Gary M - W2UX <MAIL4GARY@worldnet.att.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [28617] Re: O'scope bandwidth question.
Message-ID: <Pine.SOL.3.91.971012004209.2558C-100000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sat, 11 Oct 1997, Gary M - W2UX wrote:

> Is there a way to tell the bandwidth of a scope if you don't know with out
> fancy equipment.
> Can you tell from the controls on the scope?
> Thanks
>
> ====================================
> Gary - W2UX   QRP-L # 593
> Lexington, SC   CQC #413

Gary,
One "ballpark" indicator is to just see what the fastest sweep speed
is on your scope. The maximum bandwidth is usually based on five
cycles per division at the fastest sweep speed. For example, if the
fastest sweep speed on your scope is 1uS/div, that would be 1 MHz per
division (f=1/t = 1/1uS = 1MHz), times 5 for 5 cycles per division
would be 5MHz. Thus, the maximum bandwidth of your scope is probably
5 MHz. On a 5MHz scope, you CAN resolve 7MHz ... that would be seven
cycles per division. But since 7MHz would be exceeding the bandwidth
of the scope, the peak-to-peak display will be much less that what it
really is.

72, Paul NA5N

Date: Sat, 11 Oct 1997 11:40:27 +0100
From: Frank G3YCC <g3ycc@gqrpclub.demon.co.uk>
To: G3TUX@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [28618] Re: SST 20 VXO range
Message-ID: <rBkxtAAbe1P0EwEj@gqrpclub.demon.co.uk>
MIME-Version: 1.0

In message <971010142957_-1395546827@emout02.mail.aol.com>,
G3TUX@aol.com writes
>Hallo Frank!
>
>I still have not got around to building my SST/20 - but my pal, Hanns DK9NL,
>has completed his. He replaced D4 with a BB205B and now tunes from 14041 to
>14063. Hope this info is helpful.
>
>I have downloaded the SST mod. file from your web site - many thanks.
>

>Hope to see you at Rochdale.   73   Chris   G3TUX
>
Thanks Chris for the gen and will be at Rochdale so see you then and
also at Leicester.
Cheers.
--
Frank G3YCC GQRP 042
QRP Web Page: http://www.gqrpclub.demon.co.uk
Packet: G3YCC@GB7HUL.#15.GBR.EU

Date: Sun, 12 Oct 1997 10:01:06 +0100
From: Leon Heller <leon@lfheller.demon.co.uk>
To: jamesw@ptialaska.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [28619] Re: Circuit for keying a transciever with a palmtop?
Message-ID: <Vc1hBEASHJQ0Ewa6@lfheller.demon.co.uk>
MIME-Version: 1.0

In message <34405070.99A0C45C@ptialaska.net>, "James M. Wiedle"
<jamesw@ptialaska.net> writes
>Hi there everyone;
>
>I've been attacked by the palmtop hysteria and went out and purchased a
>palmtop. Does anyone know of a keying circuit that one can use to drive
>a transciever using the terminal program in Windows CE?
>
>I suppose one could write a program in basic or c++ that could key a
>circuit out of the rs232c but I was hoping that I wouldn't have to be
>the one!

I've had an HP 320LX for some time, and I've been thinking about using
it for one or two radio applications. I've got Visual C++ for WinCE.

I've transferred an Excel spreadsheet of all the UK repeaters onto it,
which is quite useful.

There's no easy way to get any sort of I/O from the terminal program,
AFAIK. It should be possible to do what you suggest and hang a PIC or
AVR off the serial port connection to the transceiver and use this to
detect a control sequence. Another way would be to write a new terminal
emulator that could output DTMF tones to the speaker, and detect those
with some hardware, or do something similar using the IRDA I/F. Parallel
I/O could be added via the PC Card I/F quite cheaply, if someone makes
such a thing, and controlled by a terminal emulator.

I'll post your query to the H/PC mailing list, with my response, and see
if anything comes up. If it does, I'll post it back to this list.

73, Leon
--
Leon Heller: leon@lfheller.demon.co.uk http://www.lfheller.demon.co.uk
Amateur Radio Callsign G1HSM   Tel: +44 (0) 118 947 1424
See http://www.lfheller.demon.co.uk/rcm.htm for details of a
low-cost reconfigurable computing module using the XC6216 FPGA

Date: Sun, 12 Oct 1997 06:37:40 -0400
From: Henry Freedenberg <henryf@quartz.gly.fsu.edu>
To: jamesd1@flash.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [28620] Re: QRP Flahlights
Message-ID: <3440A874.BE8@quartz.gly.fsu.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

James R. Duffey wrote:
>
> I didn't realize that there was so much interest in low power
> flashlights.

Starware by Phillip Harington has some nice Flashlight to LED conversion
projects.
I have made several of these and they all work. Basically, you remove
the bayonet mount bulb, take out the bulb innards and replace the
filament with a current limiting resistor and an LED.

Works Fine.

Low Investment - High Return

Henry

Date: Sun, 12 Oct 1997 09:25:57 EDT
From: n4so@juno.com (charles k brown)
To: qrp-l@Lehigh.EDU
Subject: [28621] Component Data

Message-ID: <19971011.202156.4391.22.n4so@juno.com>

Frequently asked questions about components or parts--
Mouser Electronics and Digi-Key can cross reference a part for you. Call them and ask.
Mouser 1 800 346-6873
Digi-Key 1 800 344-4539
and perhaps Allied Electronics - 1 800-433-5700

Mouser and Digi-Key have the computer Cross Reference software and the books to look up most parts and tell you if they have it or cross it with another manufacturer's part number.
They are in the business to sell parts and are most likely to be able to find a part for you.
nnnn

Ken Brown, N4SO
QTH nr Mobile, AL/ EM50tk
qrp-l #622
n4so@juno.com

Date: Sun, 12 Oct 1997 10:08:44 -0400
From: Bill Boose <wboose@postoffice.ptd.net>
To: qrp-l@Lehigh.EDU
Subject: [28622] dx
Message-ID: <3.0.1.32.19971012100844.006bcdc8@postoffice.ptd.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Just (1:30 utc) worked S72R in Seychelles.   Running 3 watts from my HW-8 to dipole.   Wow.   It's getting fun!

Date: Sun, 12 Oct 1997 10:45:22 -0400 (EDT)
From: PULLJIM@aol.com
To: qrp-l@Lehigh.EDU
Subject: [28623] sst 40M audio problems-howl
Message-ID: <971012104446_815511524@emout16.mail.aol.com>

HELP ! My 40M SST has a howl or some kind of tone on receive. It draws

17.5M.
Parts are placed correctly, and there are no solder bridges.
I have tried several different head phones, all have the same results. The howl is clearly heard even with the volume turned down.   As volume is increased the howl is louder, and it draws 22M. Anyone have any ideas ?

Date: Sun, 12 Oct 1997 10:14:30 -0000
From: "Larry Cruise" <Larry.Cruise@MCI.Com>
To: "'QRP-L'" <qrp-l@Lehigh.EDU>
Subject: [28624] Weak signal enhancement info
Message-ID: <01BCD6F8.5823B5A0@lcruise.ns.mci.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: quoted-printable

Hello All,

The discussion on weak signal enhancement reminded me of an article I =
pulled from a web site a few months ago. The article was aimed at the =
EME user, but is applicable to this discussion.

-Larry AA5TA (qrp-l #1245)

HEARING CW IN NOISE.=20
by Chuck MacCluer, W8MQV.=20
maccluer@math.msu.edu=20

(a synopsis of a paper to be presented at the 1996 EME Conference in =
Baltimore, August 1996.)

The detection problem.

Our task in EME communication is to hear Morse code deeply buried in =
noise. We know in advance that the signal is a (say) 500 Hz tone. We =

wish to detect its presence or nonpresence. Is there a dit being sent at =
this moment? This is the `detection' problem.=20

The optimal filter for detecting the presence of a known signal in white =
noise is the `matched' filter. A matched filter `plays' the received =
signal backwards against an uncorrupted version of itself --- the =
incoming noisy signal is convolved with a local clean 500 Hz signal. =
Such a strategy will yield the best possible improvement in =
signal-to-noise ratio.=20

I have implemented a matched filter using the powerful but low cost =
Texas Instruments TMS320C5X DSP Starter Kit, referred to as the DSK. =
Texas Instruments sells the DSK for $99, but it can be found discounted =
40%. The board is powered by any 9 vac wall transformer @250 ma, has a =
serial DB9 port and two RCA audio in/out jacks. The levels at the analog =
ports are such that the DSK can be plugged directly between receiver =
audio output and headphones. I will send the code for the matched filter =
via Email upon request. A reprint of my 95 Central States article on the =
matched filter is obtainable with a manila SASE. Active EME operators =
such as VE7BQH have found this filter very effective.=20

But a fundamental question remains. Since the bulk of the signal =
processing in EME is done by the human ear and brain, what preprocessing =
would be of maximum assistance? Possibly the noise reduction from a =
matched filter is not the best spectral distribution to be presented to =
the ear. This has launched me on a modest review of the psychoacoustic =
literature to discover what abilities of human hearing could be =
exploited to improve EME reception.=20

The psychoacoustic results given below are primarily from three sources: =
David M. Green's "An Introduction to Hearing" (1976)
Wm.A. Yost's "Fundamentals of Hearing" (1994)=20
W.M. Hartmann's " Signals, Sounds and Sensation" (1996)
These books are in turn compilations of the experimental findings of =
hundreds of researchers.

Depth of hearing

Although it is not germane to our goals, it is astonishing to learn of =
the sensitivity of the human ear. Our ears can detect sound pressure at =
0.0002 dynes/sqcm, which researchers declare as 0 dB SPL. Allow me, to =
put this in perspective. It has been seen in many experiments that at =
all observable levels, the displacement of the ear drum is linearily =
dependent on sinusoidal sound pressure. Extrapolating then to 0 dB SBL, =

one obtains the following astonishing statement:=20

The ear drum can detect displacement less that one hundreths of the =
diameter of a hydrogen molecule.
In fact, W. Bialek (1983) argues that "the ear is not a classical =
system," that it can hear at the quantum noise level. This implies the =
ear achieves "perfect biological amplification".=20

What we should carry away from all this is the certain belief that the =
brain/ear is an extremely powerful signal processing system.=20

Tones buried in white noise

There have been many studies to determine how deeply we can hear a =
sinusoidal tone that is buried in white noise. This is directly relevant =
to EME. Studies show that our ability to hear a sinusoidal in white =
noise

1. Is independent of level. Adjusting the audio gain has little effect.=20

2. Is independent of the bandwidth of the noise. The ear rejects noise =
outside its critical bandwidth (typically 50 Hz) centered at the tone. =
More on this below.=20

3. Is dependent on the duration of the tone. A dit shorter than 0.1 =
second requires a higher amplitude to be heard. For durations between 10 =
and 100 ms, the detectable signal power is inversely proportional to =
duration.
Sending faster than 12 WPM is counterproductive. On the other hand, dits =
longer than 100 ms give no significant improvement in detectability.=20

4. Is dependent on the pitch of the tone. Higher pitch requires a higher =
S/N. As the pitch rises from 400 Hz to 4000 Hz, both the necessary S/N =
rises and the critical bandwidth widens exponentially.=20

5. Is more or less the same for all (unimpared) individuals. When =
absolute magnitudes are adjusted, the S/N required appears constant =
across individuals. This gainsays the `gifted ear' hypothesis.=20

6. Is dependent on the purity of the tone. Roughness degrades =
detectability.=20

All of the above generalizations are yields of `masking' studies. A =
single tone of say 500 Hz is partially masked by a band of white noise. =

Subjects are asked to decide presence or nonpresence of the 500 Hz = signal. By varying the signal strength as well as the center frequency = and bandwith of the imposed noise, researchers can determine the = required S/N and map the ear/brain's built-in filter width and shape. = For example, he ear's skirt shape is much steeper on the low frequency = side. Moreover, Q is constant for f > 500 Hz, but decreases with = frequency below 500 Hz.=20

The filter's (critical) bandwidth varies from a width of 50 Hz in the = 400--500 Hz range, to a width of 200 Hz at 2000 Hz.The ear ignores noise = that falls outside its critical bandwidth. If the noise bandwidth is = lowered below the critical bandwidth, no improvement is noted. Thus the = use of narrow CW filters serves only to reduce fatigue, and, on the = downside, to correlate the nearby noise into ringing at the signal = frequency. For unlike the psychoacoustic experiments where the signal = and noise are independently generated then mixed, our EME signals and = noise must pass through the same filters.=20

Binaural phenomena

Survival pressures have evidently forced the brain to evolve powerful = signal processing algorithms to exploit our binaural hearing. Phase = information greatly improves the detectability of a sinusoidal in noise. = Below in Table 1 is a synopsis of experimental results where the signal = and/or noise were fed in phase or exactly out of phase to the right and = left ear.=20

Table 1. Improvement in detection of a tone in white noise

signal	noise	dB improvement
in phase	in phase	0
one ear only	one ear only	0
one ear only	uncorrelated	0
180 phase	180 phase	0
180 phase	uncorrelated	3=20
in phase	uncorrelated	4
one ear only	180 phase	6
one ear only	in phase	9
in phase	180 phase	13
180 phase	in phase	15

(Conditions: signal is 500 Hz sinusoidal of duration 100 ms, noise at = least 20 dB=20
above audible threshold.)

So for example, if the signal is fed to one ear but out of phase to the = other, and if the noise is fed in phase to both, you can expect the = miraculous improvement of 15 dB in your ability to extract the signal = from the noise.=20

Unfortunately all this is wishful thinking. If we could separate out the = signal from the noise in order to reverse its phase to one ear, we would = have the signal in hand --- no further processing would be necessary.=20

Airline pilots exploit the 3 dB configuration of Table 1 by feeding = their receiver's audio out of phase to each ear to suppress cockpit = noise.=20

An optimal EME receiver

All this psychoacoustic evidence points to an optimal EME receiver = architecture. As I argue in these proceedings, mixing of any sort = imposes wideband 1/f noise on the resulting detected audio that cannot = be masked by low noise preamplifiers. To minimize receiver induced noise = and to obtain the purest audio, a direct conversion phasing receiver = such as KK7B's single board miniR2 should be employed, with the = injection frequency supplied by a variable crystal oscillator-multiplier = chain. The audio from the DC receiver is buffered, split, and sent to = two Texas Instruments DSK boards. The output of the two DSKs is sent to = a two-channel headphone audio mixer with gain control and left/right = pan. Op-amp inverters might also be optionally available, but inversion = could more easily be done in software. With the twin DSKs, two distinct = algorithms could run concurrently, fed in various mixes to both ears.=20

I have noticed the following phenomenon: with my matched filter MATCH = running on one DSK sent in phase to both ears, but with a unprocessed = signal (using my straight through routine THRU on the other DSK) at low = level in one or both ears, I experience an improvement in detectability. = Perhaps this is an example of the exciting new method of `comodulation = masking release'. In this approach, the noise amplitude structure about = the signal is used to modulate a noise at a removed frequency. When this = second noise is mixed with the given S+N, a significant improvement in = detectability is observed. Please inform the EME community if your own =

experiments yield results. As yet I have come to no conclusion about =
whether or not the matched filter is the best preprocessor to exploit =
the special abilities of the human ear.=20

Date: Sun, 12 Oct 1997 08:34:08 -0700
From: Steve Miller <kg7pv@teleport.com>
To: qrp-l@Lehigh.EDU
Subject: [28625] Re: QRP Flashlights
Message-ID: <3.0.3.32.19971012083408.00695238@mail.teleport.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 06:11 PM 10/11/97 -0700, you wrote:
>I just found this regarding the building the LED flashlights.
>
>http://users.southeast.net/~rcurry/ericsled.html
>
>Hope this helps. Somewhere I ran arcoss a mod to change the bulb of a
>mag lite to a LED. I'll try to find it.
>
>Norm/KQ6SD
>

Last spring I made three similar LED flashlites for my kids to use while camping and for me to use at the qrp operating table. The LED's used were from RS (# 276-206 Orange 12,000 MCD and # 276-205 yellow 6,000 MCD). These LED flashlites are amazingly bright and throw a focused beam a long way.

We camp a lot during the summer and the kids use the flashlights, well as kids do, all the time. Still have not changed the batteries. I saw somewhere (maybe one of the 73 articles) that estimated battery life is over 60 hours and of course the LED pretty much has to be broken to die. I did not bother to calculate the actual estimated life of the two AA batteries used in each light.

The yellow LED is a good general purpose light tho not as bright as the orange (note that the color is closer to red). You do not want to shine the orange 12,000 MCD light directly into your eyes - it is very bright! For that reason I used the yellow for the kids and its color is better for standard flashlight use anyway. I made a dual light for me with one of each. Had no trouble using these lights for night time radio operation in my tent trailer or at the picnic table in the campground. They are fairly focused (specs say 10 degs) so are set up just right for a flashlite.

I have not seen any of the really bright 30,000 MCD LED's but someday would like to try one in a flashlight.

One last note. See NA5N Paul's QRP Data Book for the formula to calculate the dropping resister you need for your particular LED. R= Vcc - Vf / If The RS catalog give the max current and voltage for all the LED's - a handy chart. 73
Steve Miller kg7pv@teleport.com Portland, OR
Norcal #308 QRP-L #109 ARCI #9230

Date: Sun, 12 Oct 1997 09:49:49 -0600
From: "Steve Hurst" <shurst@magiclink.com>
To: <qrp-l@Lehigh.EDU>
Subject: [28626] "Joy of QRP"
Message-ID: <199710121542.LAA210282@nss2.CC.Lehigh.EDU>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Gang,

I must have missed the post (or is it the boat ?), how much are the books going to be and where can I get a copy ? Thanks, have a nice day !

73,
Steve Hurst
KA7NOC (southern Idaho)
shurst@magiclink.com
http://www.magiclink.com/web/shurst/
QRP-L #909
38 Special
Mk-22

"I'll tell YOU what" !!!!!

Date: Sun, 12 Oct 1997 09:06:02 -0700
From: Jerry Parker <jparker@fix.net>
To: qrp-l@Lehigh.EDU
Subject: [28627] "The Joy of QRP"
Message-ID: <2.2.32.19971012160602.00abc704@fix.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

All the info on the reprint of "The Joy of QRP"

is available off the NorCal Page including a

convenient order from you simply print from you

browser.

Enjoy,,,72,,,Jerry...WA6OWR...K

Date: Sun, 12 Oct 1997 11:20:27 -0500
From: Wayne Alexander <walexander@wwn.net>
To: n4so@juno.com (charles k brown)
Cc: qrp-l@Lehigh.EDU
Subject: [28628] Re: Fox log (NR3Z)
Message-ID: <3.0.3.32.19971012112027.006a0734@pop.wwn.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

     At 09:25 AM 10/12/97 EDT, you wrote:
>Never did.
>Not a requirement.

It would be nice to see how many people worked him.

Date: Sun, 12 Oct 1997 10:47:26 -0600

From: "Marshall Emm" <mgemm@mtechnologies.com>
To: qrp-l@Lehigh.EDU
Subject: [28629] CQC Swaplist Update
Message-ID: <199710121647.KAA20402@bobcat.sni.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

The CQC Swaplist has been updated. Check it out on the
web: http://www.mtechnologies.com/mthome/cqc.htm

Or email me to be put on the email distribution list.

73
Marshall Emm
N1FN/VK5FN
n1fn@mtechnologies.com
http://www.mtechnologies.com/mthome
(303)752-3382
--

Date: Sun, 12 Oct 1997 11:55:00 -0500
From: "Adam B. Kanis" <adam-kanis@uiowa.edu>
To: qrp-L@Lehigh.EDU
Subject: [28630] Operating Question (directed CQ's)
Message-ID: <3.0.3.32.19971012115500.006af02c@molsun.ophth.uiowa.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi all,

Was trying to catch some QRP/QRP contacts on 40m this weekend, but the
majority of what I hear was CQ PA, which I assume was for the PA QSO party.
 Question: when somebody calls CQ PA, are they indicating they only want
PA stations answering, or are they indicating that they are involved in the
QSO party? Thanks in advance for taking the time to help.

73,
--adam
==
Adam B. Kanis, N2BRT   QTH: Wellman, IA (Near Iowa City) EN41ck
adam-kanis@uiowa.edu   QRP ARCI : NorCal : QRP-L: G-QRP : CQC
OHR-100 : Carolina Beam oriented N/S
==

Date: Sun, 12 Oct 1997 13:20:32 EDT
From: kc5aik@juno.com (Larry H Sykes)
To: qrp-l@Lehigh.EDU
Message-ID: <19971011.193958.5047.3.kc5aik@juno.com>

Anyone?
What is a beverage antenna?. Can it be described on e-mail?
Sounds interesting!
Tnx 73 CUL
Larry H. Sykes

Date: Sun, 12 Oct 1997 10:24:21 -0700
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)
To: qrp-l@Lehigh.EDU
Subject: [28632] Address to order "Joy of QRP"
Message-ID: <3.0.1.32.19971012102421.006ca604@telis.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Wow, what a response to a posting. I forgot to include the ordering information in my posting. Sorry about that. Here it is.

To order do the following: Send a check or money order made out to Ade Weiss to:

Adrian Weiss W0RSP
526 N. Dakota St.
Vermillion, SD 57069

Prices are as follows:
$23.00 First Class Mail (U.S), $26.00 Foreign, Seniors (65+): $15.00, Two copies: $40.00 (shipped to same address) The first 100 copies will be numbered & autographed. Package Deal: JOY of QRP and HISTORY of QRP (usually $15) = $33.00. US Funds only, make checks to Ade Weiss.

Hurry, I have a feeling these won't last long. 72, Doug, KI6DS

Date: Sun, 12 Oct 1997 10:28:56 -0700 (PDT)
From: Jim W7LS <w7ls@brigadoon.com>
To: qrp-l@Lehigh.EDU
Subject: [28633] Multicolored QRP flashlight??
Message-ID: <199710121728.KAA09373@k2.brigadoon.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi. Anyone know of a qrp flashlight mod that would allow more than one color, such as red (for keeping your night vision intact), white (for general fiddling around in the dark), and infrared (for night vision illumination)? I think that would be way-cool. Maybe use a 2 cell AA Maglight and use the rotating focusing ring to select colors. Ooh, another project that's not only unfinished, but undefined! Wow! I declare myself 'King of Unfinished Projects'. :-)
        How about a new contest, where we just list all of our unfinished projects and see who's the farthest behind?? Bet I win......

Jim, W7LS

Date: Sun, 12 Oct 1997 13:44:00 -0400 (EDT)
From: NilsBull@aol.com
To: w4bws@juno.com, qrp-l@Lehigh.EDU
Subject: [28634] Re: sw listening
Message-ID: <971012134400_-1528933978@emout05.mail.aol.com>

Donald,

You're 2 years younger 'n me. My folks had the Silvertone console set with the AM radio, the wire recorder and the record player. Dad still had that radio (the console he'd trashed and had transferred all the wire recordings to tape many years before) when I was graduating from high school in 1964.

There used to be a tape of me saying "there's a radio station in there," Dad's recording of my first words into the Silvertone's microphone. Carbon mic, if memory serves. I took the element out and replaced it with a piezo that kicks butt. Have it hooked to my TR7. Every time I talk into that mic, the vibrations of my voice hit the finish the same way they did over 48 years

ago, mixing then as they do now with the vibrations from my father's voice when he spoke into that mic too.

Funny how this radio stuff -- changing as it is constantly around us -- has caught us or had caught us early enough in our lives for us to be driven to figure it out as best we could.

I don't think I'll ever get tired of hearing voices come out of the air around me in the shack. At the old hacienda, where the shack was out in the garage (a much nicer set up than here, believe me), I used to turn off all but one light (which weren't hard, being as there were only two, not counting panel lights) and listen to QSOs in progress, or to radio stations all over hell, messages of love or life or hate or belief or disbelief jumping around the world and materialized in my earphones.

Amazing thing about the human condition: we are all cast up alone on this shore and seem driven all of us to find someone else whose footprints stumble across ours from time to time. The Robinson Crusoe metaphore. Dad's voice and mine on a long-lost wire spool. Silvertone radios. Hallicrafters S38Es, JOTA & Boy Scouts. Stamp collecting from QSL cards. Salsa music from listening to the now silent "Radio Caribe en Ciudad Trujillo . . . " (quien lo recuerde?) Never a dull moment.

Thanks for the memory run, Don.

73
Nils
WB8IJN &c

Date: Sun, 12 Oct 1997 10:48:31 -0700
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)
To: qrp-l@Lehigh.EDU
Subject: [28635] Who is coming to Pacificon?
Message-ID: <3.0.1.32.19971012104831.006ca604@telis.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Pacificon is this Friday, Saturday and Sunday, with the QRP Forums featuring Brad Mitchell, Gary Diana, Dave Benson, Paul Harden, Wayne Burdick, Eric Swartz, Dave Gauding and Roy Lewallen all on Saturday. Friday night many of the QRPers will be there and we will probably go out to dinner at one of the local restaurants. Lets meet in the lobby to discuss the informal plans.

Also, at 11:55 Saturday morning the official announcement of the winner of the 1997 NorCal Design Contest will be announced. We will have kits available at the meeting for sale. Plus, this kit will be available for all who want one after Pacificon by mail order. Don't worry, there will be plenty available. You might wonder how we got the kits ready so quickly, when the competition didn't end until Oct. 1. The answer is quite simple really. The winning entry came to me in July, and when I saw it, I knew that we had to kit it, either as the winner of the design contest, or as a NorCal kit by itself. When Jim saw it, he agreed. So, we started the kitting process in late July, with the feeling that if it won the contest, we had a lot of the work done and if it didn't win the contest, then we had a new NorCal kit to introduce at Pacificon. Either way everyone was a winner.

Yesterday I picked up the final parts for the kit, and will finish kitting the first 200 today. The first run is 500 kits. But only 200 will be done by Pacificon, as I have a day job too!!

Those of you who will not be able to go to Pacificon will not be left out of the announcement. Chuck Adams and Jerry Parker will both post the announcement with pictures and full ordering information at the same time that I am making the announcement at Concord. One hint, the designer of this project is from the East Coast.

Now for the list of who will be at Pacificon that I know of. The reason for the list is that several of you are on this list and this will give you the chance to have an eyeball with your friends from the list. You won't have to say, "Darn, I was there too, wish that I had known you were there."

Ok, here we go, in no particular order.

Chuck Adams, Roy Lewallen, Dave Benson, Wayne Burdick, Eric Swartz, Paul Harden, Dave Gauding, Gary Diana, Brad Mitchell, Monte Stark, Jim Cates, Steve Cates, Mac McClurkin, Doug Hendricks, Derry Spittle, Ori Mizrahi-Shalom, Dave Fifield, Mike Gipe, Mike Connor, Brian Kasel, Bob Hightower, Bertie Hightower, George Hebron, David Yarnes, Bob Tellefsen & 'ole Kenwood, Debra Blanke, Vic Black, Jerry Parker, Vern Wright, Dave Meacham, Stan Cooper, Dennis Utley, Bob Dyer, Richard Fisher, Cam Hartford, and a cast of hundreds of other QRPers. Why, I even expect Joe Gervais to give in at the last minute and show up.

We have lots of fun planned, and hope to see you there. Don't forget the QRP Open House with lots of fun activities Saturday night. See you there.
72, Doug, KI6DS

Date: Sun, 12 Oct 1997 10:53:21 -0700
From: Steve Miller <kg7pv@teleport.com>
To: qrp-l@Lehigh.EDU
Subject: [28636] RE: QRP Flashlights, more info
Message-ID: <3.0.3.32.19971012105321.0068f938@mail.teleport.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Had several requests for more info. See these two articles:

"73" 6/97 page 84 Ham to Ham Hint from N4UAU - using a Toshiba TLOA190P(WX) LED rated 18,000 - 36,000 MCD from Hosfelt Electronics. I don't have contact info for Hosfelt, sorry.

"73" 11/96 page 19 - A Low Current Light by KB4ZGC using nine yellow LED's in series across a 12V battery. Uses no dropping resister, mounting in a 3x3 grid using Mouser 509-HPY5066X, T1-3/4 yellow LED's. He says that these produce much more light than the standard yellow LED.

RS sells an IR led but have not played with that, I guess since I don't have night vision goggles! 73

Steve Miller kg7pv@teleport.com Portland, OR
Norcal #308 QRP-L #109 ARCI #9230

Date: Sun, 12 Oct 1997 15:19:19 EDT
From: kb0rol@juno.com
To: qrp-l@Lehigh.EDU
Subject: [28637] FOX - report
Message-ID: <19971012.131757.4318.3.kb0rol@juno.com>

HI,

I'm sitting in Grand Junction Colorado (about 4 hours west of home) visiting my in-laws for the weekend. I'm bored and wish I would have brought my rig to play with but didn't realize we were going to get snowed in.

Been reading my digests and am now all caught up so I thought I'd comment on Fox Hunt #4.

I listened for 1 1/2 hours before I was able to copy Marty's exchange 100%. Conditions weren't that bad but by the time people stopped sending

their calls Marty had usually sent all of his and was getting his reply.

Marty was good, it appeared he listened for some of the first calls sent then started the exchange. Those who waited until the noise died off or continued to send until noticed never did get, at least not for the first hour or so.

Anyway after being able to copy the complete exchange I waited until he requested more calls. I sent my call twice and listened heard my call come back and sent my acknowledgement - under someone else sending their call. Marty came right back with his information and I sent mine, and it was done. In all I'd spent 1 1/2 hours listening and sent my call twice (one right after the other) and made the exchange. That gives me 3 of the 4 Foxes plus the N/T Fox.

I wish I brought my notes from the hunt I could give signal reports for about everyone. The one I do remember is Doc (K0EVZ) every time he sent his call I had to take my earphones off. Doc are you sure you don't live in next door to me? every time your on the air I believe I could turn the rig off and hear you with just a resonant lawn ornament.

All in all I had a great time - It was a great propagation study and an excellent chance for me to practice my code copy.

Thanks,

de KB0ROL, Brad

PS if anyone lives in Grand Junction - I'm at 970-242-0394 and bored.

Date: Sun, 12 Oct 1997 15:43:12 EDT
From: w4bws@juno.com (Donald E Sanders)
To: NilsBull@aol.com
Cc: w4bws@juno.com, qrp-l@Lehigh.EDU
Subject: [28638] Re: sw listening
Message-ID: <19971012.155440.5087.4.W4BWS@juno.com>

Nils, thanks for the note. Yes those were the days, and our children will look at now and say "those were the days". But I wish there were still the interest in voice communications and CW athat got me interested in electronics and led to 30 years of engineering and 26 in the space industry before I found my true talent as a Chiropractic physician for the last 10 years. But I still love to sit in a dim lighted room with the light of the dial and tuning the radio over the short wave bands listening to the far reaches of the earth and beyond. I guess the

interest today is in tuning the internet.
Donald E. Sanders W4BWS
694 E. Eau Gallie Blvd. Satellite Beach, Fl 32937
407-779-0222 Fax 407-779-0830
E-mail to w4bws@juno.com
My favorite QRP rig glows in the dark

Date: Sun, 12 Oct 1997 15:43:12 EDT
From: w4bws@juno.com (Donald E Sanders)
To: kc5aik@juno.com
Cc: qrp-l@Lehigh.EDU
Subject: [28639] Re:
Message-ID: <19971012.155440.5087.2.W4BWS@juno.com>

Larry a beverage is any antenna that takes a beer party to put up.
Seriously, It is a long (several wavelengths long) wire mounted 7 to 12
feet off the ground. If terminated in a resistance it will be directional
towards termination, if unterminated will be bidirectional . Good info in
the long wave dx handbook by OH???(cannot find my copy now). Responds to
the magnetic wave and resists man made noise.
Donald E. Sanders W4BWS
694 E. Eau Gallie Blvd. Satellite Beach, Fl 32937
407-779-0222 Fax 407-779-0830
E-mail to w4bws@juno.com
My favorite QRP rig glows in the dark

On Sun, 12 Oct 1997 13:20:32 EDT kc5aik@juno.com (Larry H Sykes) writes:
> Anyone? What is a beverage antenna?. Can it be described on e-mail?
> Sounds interesting!
>   Tnx 73 CUL
>   Larry H. Sykes
>

Date: Sun, 12 Oct 1997 15:41:04 -0700
From: David Bixler <qrp@netins.net>
To: kc5aik@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [28640] Re: Beverage Antenna
Message-ID: <34415200.4D52@netins.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Larry H Sykes wrote:
>
> What is a beverage antenna?. Can it be described on e-mail?
> Sounds interesting!

Hi Larry:

The Beverage antenna was designed by an engineer with the name of Beverage back in the 1920's. It was orginally used as a directional receiving antenna for commericial trans-atlantic radio-telegraph communications.

The most common form is a single wire, several wavelengths long supported
5 to 10 feet high over the earth in a straight line toward the desired direction of reception. The longer the length in terms of wavelength, the more directional it becomes off the two ends.

If the far end is terminated with a resistor with the same impedance of the antenna (typically around 600 Ohms), the antenna becomes unidirectional instead of bidirectinal. The termination is usually a carbon resistor connected to a ground rod. The value of the termination resistance can be "tuned" to optimize signal rejection off the back side.
Some operators leave the antenna un-terminated so that it can be used for
reception of two directions. I believe that it becomes a better receiving
antenna if the earth under it is of poor electical conductivity. At the low height, it is not effective as a transmitting antenna.

Most books describe the Beverage antenna as usefull only on the lower bands
(160 and 80 meters). I happily discovered that one worked very well for me
on 40 meters a few years ago and was responsible for many DX QSO's down on the low end of 40. I could hear European stations very clearly with little north american QRM on the Berverage that could not be copied on the transmitting dipoles and vertical. Mine was constructed of electric fence wire about 400 feet long and was strung along wood fence posts and tree trunks about 4 feet high. Not very fancy, but it worked.

At the time, I ran the Beverage into a Collins 75A4 receiver connected to
one half of a stereo headset. The other earpiece was connected to the station transciver and the transmitting antenna. This gave be diversity reception and full QSK. Great for DX'ing!

Hope that helps.....

Dave Bixler   W0CH
Seneca, MO
qrp@netins.net

Date: Sun, 12 Oct 1997 20:48:27 +0100
From: K3TE <QRP@earthlink.net>
To: QRP-L@Lehigh.EDU
Subject: [28641] FS: HM-9A & HFT-9-B
Message-ID: <3441298B.1F6C@Earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I have the HeathKit QRP wattmeter, HM-9-A, and the HeathKit antenna tuner, HFT-9-B for sale. These units were some of the last of the HeathKit production, being more grey than the HW-9 transceiver which they were meant to accessorize.

Both units are in good condition with normal wear (READ: some minor nicks in the finish). They work as per instructions. Manuals included. I may also have the alternate parts to convert the meter to 2 or 6 meters, but I can't promise that (parts have their own life-pathways, you know)

Both units (they were born twins, how can I separate them?) $135 shipped or (as insane as I am, even trade for an electrically and physically clean Ten-Tec 262 P.S.)
--

****
Bob Schnick K3TE

http://www.qsl.net/k3te

Date: Sun, 12 Oct 1997 21:13:55 +0100
From: Werner Jochem <Werner.Jochem@hoexter.netsurf.de>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [28642] Re: dx
Message-ID: <34412F82.364C85F2@hoexter.netsurf.de>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Bill Boose wrote:

> Just (1:30 utc) worked S72R in Seychelles.   Running 3 watts from
> my
> HW-8 to dipole.   Wow.   It's getting fun!

Congrats Bill,it would be very useful to the QRP/DX community if you
mentioned the band you were using.
72 Joe

         D K 7 V W   -   N 7 V W
  ARRL * DARC * AGCW-DL * DIG * DL-QRP-AG * G-QRP-CLUB * HSC * RTC
  Werner 'Joe' Jochem   Phone: +49 5271 8577 Fax: +49 5271 8560
  Postweg 20   Ax.25: DK7VW @ DB0HOL.#NDS.DEU.EU
  D-37671 Hoexter   Email: Werner.Jochem @ hoexter.netsurf.de
  Loc: JO41RS   jochem @ t-online.de

  Bach, Beethoven, Mozart, Morse !

Date: Sun, 12 Oct 1997 18:42:38 -0400
From: Bill Boose <wboose@postoffice.ptd.net>
To: qrp-l@Lehigh.EDU
Subject: [28643] dx
Message-ID: <3.0.1.32.19971012184238.006bedd0@postoffice.ptd.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Sorry, S72R from Seychelles was on 40 m, about 7.030.

Date: Sun, 12 Oct 1997 18:44:24 -0400 (EDT)
From: Mike Duke <K5xu@cris.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [28644] FREQUENCY FOR 10 METER QRP AM
Message-ID: <Pine.SUN.3.96.971012183515.5988D-100000@voyager.cris.com>
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Is there a calling frequency for this mode?

I made two complete qsos yesterday with a converted cb rig which I bought from this list. Both were in northern Ca.

If there is no calling frequency for qrp am, let's think about one which will fall onto one of the channels of the standard cb conversions.

Just for discussion purposes, I'll suggest 28.965 (usually channel 1), or 29.065, (usually channel 9). The first is a bit outside the triditional "AM window," while the second is automatically available as a "priority" channel on many cb rigs.

Any other "Angel Music" fans out there?

72/73
Mike

AMATEUR RADIO STATION K 5 X U
Jackson, Mississippi

Date: Sun, 12 Oct 1997 18:53:59 -0400
From: "Kevin F. Glynn" <kfglynn@prodigy.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>, "NJ-QRP" <njqrp@njqrp.org>, "LIQRP" <liqrp@waterw.com>
Subject: [28645] Nice DX and hamfest, too
Message-ID: <199710122251.SAA75532@mail1y-int.prodigy.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi gang,

Had a great time today at the hamfest at Brookdale Community College in Lincroft, NJ. Spent the morning looking around, buying batteries, J-37 key and blowing the chance to pick up an old Vibroplex paddle, s/n 32xx, but walked away. Met up with the NJ-QRP crew and had alot of fun. Hopefully will be able to meet up for the next club meeting.

I called CQ at 2134 UTC on 14.059.5, and heard FY/DJ0PJ in French Guiana come back. He was running 5 watts to a balcony mounted dipole. He was 449

QSB to me and I recd 569 QRN. We chatted for about 30 mins until a digital signal almost blew me out of my chair. We were able to QSY to 14.062 for a few more. I was telling Dave that I have QRO friends that feel you cannot have a 2 way QRP QSO with any kind of success. He laughed, and said we know different...

Not a bad day. Perfect weather, alot of fun this morning at the hamfest, now going to watch The Out-of-Towners. One of my favorite movies of midwesterners coming to NYC for a new job. THen the Knightlites in a few hours...

72 Kevin N2TO
Brooklyn, NYC
kfglynn@prodigy.net

End of QRP-L Digest 876
****